TRANSLATION PATENT COOPERATION TREATY POT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant'	s or agent's file reference	FOR FURTHER ACTION	See Form PCT/IPEA/416					
International application No.		International filing date (day/month/year)	Priority date (day/month/year)					
PCT/JP2005/001843		08.02.2005	17.02.2004					
	nal Patent Classification (IPC) or nati	 onal classification and IPC						
C13K1/02(2006.01), C07H1/08(2006.01), C07H3/02(2006.01)								
Applicant JGC CORPORATION								
	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 							
2.	This REPORT consists of a total of	4 sheets, inc	eluding this cover sheet.					
3.	This report is also accompanied by A	NNEXES, comprising:						
	a. (sent to the applicant and	to the International Bureau) a total of	sheets, as follows:					
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental							
	Box.							
	b (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))							
	, containing a sequence listing and/or tables							
	related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4.								
	Box No. I Basis of the	report						
	Box No. II Priority							
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicabi								
	Box No. IV Lack of unit	y of invention						
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	Box No. VI Certain documents cited							
	Box No. VII Certain defects in the international application							
	Box No. VIII Certain obse	ervations on the international application						
Date of su	bmission of the demand	Date of completion	of this report					
Name and	mailing address of the IPEA/JP	Authorized officer						
Facsimile	No.	Telephone No.						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2005/001843

Вох	No. I	[Basis of the report				
1.		_	I to the language, this report is based on the internation der this item.	nal application in the language in which	it was filed, unless otherwise		
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:						
		\sqcup	international search (Rule 12.3 and 23.1(b))				
		\sqcup	publication of the international application (Rule 12.4)				
		Ш	international preliminary examination (Rule 55.2 and/o	or 55.3)			
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):						
	\bowtie	the int	ternational application as originally filed/furnished				
	Ш	the de	escription:				
		pages	· .		as originally filed/furnished		
		pages	*	received by this Authority on			
		pages	*	received by this Authority on			
		the cla	aims:				
		nos.			as originally filed/furnished		
		nos.*		as amended (together with a	any statement) under Article 19		
		nos.*		received by this Authority on			
		nos.*		received by this Authority on			
		the dr	awings:				
		sheets	•		as originally filed/furnished		
		sheets			_		
		sheets		received by this Authority on			
	П		nence listing and/or any related table(s) – see Suppleme		_		
	\exists	_		mean Box Relating to Sequence Listing.			
3.	ш		mendments have resulted in the cancellation of:				
			the description, pages				
		H	the claims, nos.				
			the drawings, sheets/figs				
		\vdash	the sequence listing (specify):				
		Ш	any table(s) related to sequence listing (specify):				
4.			report has been established as if (some of) the amenda have been considered to go beyond the disclosure as file				
		닏	the description, pages				
		\sqcup	the claims, nos.				
		\sqcup	the drawings, sheets/figs				
		\sqcup	the sequence listing (specify):				
			any table(s) related to sequence listing (specify):				
*	If ite	em 4 apj	plies, some or all of those sheets may be marked "supe	rseded."			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Statement			
Novelty (N)	Claims	2, 4, 6-10	YES
	Claims	1, 3, 5	NO
Inventive step (IS)	Claims		YES
	Claims	1-10	NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims		NO
	Novelty (N) Inventive step (IS)	Novelty (N) Claims Claims Inventive step (IS) Claims Claims Claims Claims	Novelty (N) Claims 2, 4, 6-10 Claims 1, 3, 5 Inventive step (IS) Claims 1-10 Industrial applicability (IA) Claims 1-10

- 2. Citations and explanations (Rule 70.7)
 - Document 1: JP 11-506934 A (Arkenol, Inc.), 22 June 1999 & WO 96/40970 A1 & US 5597714 A & EP 832276 A1
 - Document 2: JP 2001-507936 A (Amalgamated Research, Inc.), 19 June 2001 & US 6200390 B1 & EP 975811 A & WO 98/30724 A1
 - Document 3: JP 62-202806 A (James L GADDY), 07 September 1987 & US 4608245 A & EP 219136 A & DE 3688310 G

Claims 1, 3 and 5

The pre-processing step set forth in claim 1 of the present application is impossible to differentiate from the decrystallization step disclosed in document 1 cited in the international search report. Such being the case, the inventions set forth in claims 1, 3 and 5 of the present application lack novelty in as much as said inventions are disclosed in document 1.

Claims 2, 4 and 6 to 10

A person skilled in the art could arbitrarily add a dilute acid technique to the technique for hydrolysing biomass by means of a concentrated sulfuric acid in the

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

invention disclosed in document 1, and could also configure so that the concentrated sulfuric acid is sprayed on instead of being mixed in during the decrystallization step, as necessary. In addition, it would have been easy for a person skilled in the art to conceive of using simulated moving bed chromatography in the light of the disclosures in document 2 cited in the international search report.

Such being the case, the inventions set forth in claims 2, 4 and 6 to 10 do not involve an inventive step.